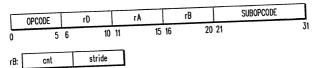
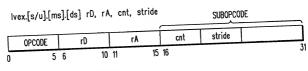


lvex.[s/u].[ms].[ds] rD, rA, rB

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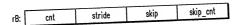
### FIG. 2



### FIG. 3

lmvex.[s/u].[ms].[ds] rD, rA, rB

OPCODE	rD.	rA	rB	SUBOPCODE
UPCODE				



### FIG. 4

lmvex.[s/u].[ms].[ds] rD, rA, cnt, stride, skip, skip\_cnt

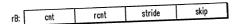
SUBOPCODE

							$\neg$
OPCODE	rD	rA	cnt	stride	skip	skip_cnt	┙
OI CODE							

Imvex2.[s/u].[ms].[ds] rD, rA, rB

Γ

ODCODE	rD	rA	rB	SUBOPCODE
OPCODE	10			



### FIG. 6

lstrmvex.[s/u].[ms].[ds] rD, rA, rB

			-0	SUBOPCODE
OPCODE	l rD	l rA	l LR	30001 0002
UPCODE	10			

. [		rent	stride	skip	skip_cnt
rB:	cnt	TOIL			

### FIG. 7

 $stvex.[s/u].[ms].[ss].[h/l] \ rS, \ rA, \ rB$ 

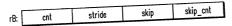
			-D	SUBOPCODE
OPCODE	rS	rA	I D	

rB: cnt stride

 $stmvex.[s/u].[ms].[ss].[h/I] \ rS, \ rA, \ rB$ 

Г

OPCODE	rS	rA	rВ	SUBOPCODE



### FIG. 9

 $stmvex2.[s/u].[ms].[ss].[h/I] \ rS, \ rA, \ rB$ 

			rB.	SUBOPCODE
OPCODE	rS	TA	10	

rB: cnt rcnt stride skip

# FIG. 10

ststrmvex.[s/u].[ms].[ss].[h/l] rS, rA, rB

OPCODE	r\$	rA	rВ	SUBOPCODE
OI CODE				

rB: cnt rcnt stride skip skip\_cnt

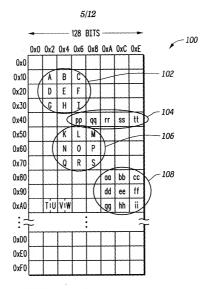
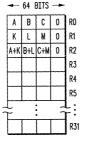


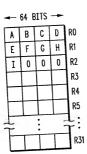
FIG. 12



D E F O RO
N O P O R1
D+N E+O F+P O R2
G H I O R3
Q R S O R4
G+Q H+R I+S O R5

FIG. 13

FIG. 14



Γ

	→ 64 BITS →							
	A	В	С	0	R0			
	D	E	F	0	R1			
	G	Н	I	0	R2			
					R3			
	-iT	-11	-i V	0	R4			
	-	忙	1		R5			
	F	_	:	:	₹:			
•	F	T	Ť	T	R3			
	_							

FIG. 16

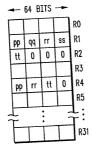
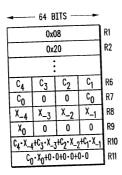


FIG. 17

Γ

FIG. 18

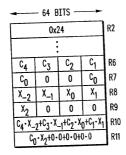


Г

	64 BITS						
	0x2	22		R2			
	:						
C <sub>4</sub>	$C_4$ $C_3$ $C_2$ $C_1$						
Co	0	0	c <sup>0</sup>	R7			
X_3	X_2	X_1	X <sub>0</sub>	R8			
X <sub>1</sub>	X <sub>1</sub> 0 0 0						
C4.X-3	R10						
CC	·X <sub>1</sub> +0·	0+0-0+0	)•0	R11			

FIG. 19

FIG. 20



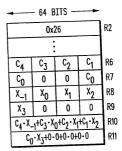


FIG. 21

FIG. 22

-	→ 64 BITS →							
	A B C 0							
	K	N	Q	0	R2			
	0x12							

R5

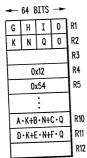
Г

-	→ 64 BITS →									
ſ	D	R1								
İ	K	R2								
		R3								
		R4								
		R5								
	A	R10								
		R11								
	T				R12					

FIG. 23

0x54

FIG. 24



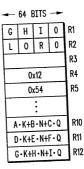


FIG. 25

Imvex\_skip\_once.[s/u].[ms].[ds] rD, rA, rB

 $\Gamma$ 

Willow Town LT.				
OPCODE	rD	rA	rВ	SUBOPCODE

rB: cnt stride skip skip\_cnt

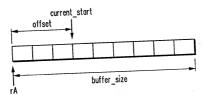
# FIG. 27

 $lmvex\_cb.[s/u].[ms].[ds] rD, rA, rB$ 

IIIIACY CO-FO	al-f1 t a			
OPCODE	rD	rA	rВ	SUBOPCODE

rB: buffer\_size offset

# FIG. 28



### FIG. 29

lstrmvex\_cb.[s/u].[ms].[ds] rD, rA, rB

_	_			
		- 1	rR I	SUBOPCODE
OPCODE	rU	IA		

rB: buffer\_size offset

Imvex\_fft.[s/u].[ms].[ds] rD, rA, rB

IIIIACY_LLC.Fox	-1.6			
OPCODE	rD	rA	rB	SUBOPCODE

rB: radix

Г

# FIG. 31

stmvex\_fft.[s/u].[ms].[ss] rS, rA, rB

SUMMEX_11 CIT	2) 0].[].[. 3			
OPCODE	rD	rA	rB	SUBOPCODE

rB: radix

# FIG. 32

lmstrmvex\_fft.[s/u].[ms].[ds] rD, rA, rB

	•			
			rD.	SUBOPCODE
OPCODE	rD	rA	10	

rB: radix

12/12

	0x0_							0xE	300
0x0									,
0x10				Х <sub>0</sub>	Х <sub>1</sub>	x <sub>2</sub>	Х3	X <sub>4</sub>	
0x20	X <sub>5</sub>	Х <sub>6</sub>	Х7						
0x30									
0x40			Y <sub>0</sub>	Y <sub>4</sub>	Y <sub>6</sub>	Y <sub>2</sub>	Y <sub>1</sub>	Y <sub>5</sub>	
0x50	Y3	Y <sub>7</sub>							
0x60									

X <sub>0</sub>	X <sub>4</sub>	Х <sub>6</sub>	Х2	R1
Х <sub>1</sub>	Х <sub>5</sub>	X3	Х7	R2
				R3
Yo	Y <sub>1</sub>	Y <sub>2</sub>	Y3	R4
Y <sub>4</sub>	Y <sub>5</sub>	Y <sub>6</sub>	Y <sub>7</sub>	R5

FIG. 35